**Nautical Math**

**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Answer the following questions using the conversion table. Show all of your work, use the proper units, and round your final answer to the hundredths place.

**Conversion Table:**

1 fathom = 6 feet

1 Statute mile = 1.61 Km

100 fathoms = 1 cable length

10 cables length = 1 nautical mile

1 nautical mile = 1.151 statute miles (length of a minute of longitude at equator)

3 nautical miles = 1 league

1 knot = 1 nautical mile per hour = 1.151 statute miles per hour

10 chains = 1 furlong = 201.17 meters

60 nautical miles = 1 degree of a great circle of earth (latitude)

1 statute mile = 5280 feet

1 nautical mile = 6076.115 feet

**Note: Statute miles is what we know as miles and is a measurement of distance over land. Nautical miles are a measurement over water.**

1. How long is 1 cable length in feet?
2. How many fathoms are in 1 league?
3. If the wind is blowing at 25mph what is that in knots?
4. How many fathoms are in a nautical mile?
5. One degree of a great circle of earth (latitude) is how many Statute miles?
6. If we travel 10,000 leagues below the sea, how many miles is that?
7. You are on a spear fishing trip and your depth finder indicates fish at 48 feet, how many fathoms is this?
8. A severe storm is expected to reach the coast in an hour. If a boat is 8 statute miles from the port how many knots will they need to travel at in order to dock before the storm hits?
9. If your answer in number 5 is the number of miles in one degree of traveling on the equator, what is the circumference of the earth in miles?
10. You receive a distress signal from a Canadian fishing vessel reporting their location 18 chains NW of your fishing spot. How many nautical miles away is this? If you traveled at 25 knots how long will it take you to reach them?